

Southern California Academy of Sciences 2010 Session Schedule

Friday, May 7, 2010

Location: Alhambra Room

Session: Station Fire Watershed Recovery

Chair: Lisa Northrop, USDA Forest Service

- 1 8:40 **WILDFIRES AND THEIR AFTERMATH: ASSESSING THE STATION FIRE**
J. Noiron, Angeles National Forest, 701 N. Santa Anita Ave., Arcadia, CA 91006.
- 2 9:00 **PRELIMINARY EVALUATION OF THE EFFECTIVENESS OF THE EMERGENCY ASSESSMENT OF POSTFIRE DEBRIS-FLOW HAZARDS FOR THE 2009 STATION FIRE (U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 2009-1227)**
S.H. Cannon, J.E. Gartner, M.N. Hanshaw, J.W. Kean, R.N. Leeper, K.M. Schmidt, and D.M. Staley, U.S. Geological Survey
- 3 9:20 **POST-WILDFIRE SURFACE MATERIAL MAPPING OF THE STATION FIRE USING AIRBORNE VISIBLE-IRRED INFRARED IMAGING SPECTROMETER (AVIRIS) DATA**
T. M. Hoefen (1), R. F. Kokaly (1), R.O. Green (2), G.A. Swayze (1) and G.S. Plumlee (1), (1) U.S. Geological Survey, Denver, CO, 80225, (2) Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, 91109.
- 4 9:40 **RAINFALL AND PEAK STREAMFLOW FOLLOWING THE STATION FIRE: A BENCHMARK FOR PREDICTIVE MODEL VALIDATION**
P. Wohlgenuth, USDA Forest Service, Forest Fire Laboratory, Riverside, CA, 92507, K. Wright, USDA Forest Service, Sequoia National Forest, Porterville, CA, 93257, T. Hogue, UCLA, Department of Civil and Environmental Engineering, Los Angeles, CA, 90095, P. Robichaud, USDA Forest Service, Forestry Sciences Laboratory, Moscow, ID, 83843, B. Roath, USDA Forest Service, Pacific Southwest Region, Vallejo, CA, 94592, and B. Hill, USDA Forest Service, Pacific Southwest Region, Vallejo, CA, 94592.
- 10:00–10:20 **BREAK**
- 5 10:20 **VALIDATION OF POST-FIRE HYDROLOGY MODELS ON A SELECTED SITE IN THE SOUTHWESTERN UNITED STATES**
L. Chen, M. Berli, and K. Chief, Desert Research Institute, 755 East Flamingo Road, Las Vegas, NV 89119.
- 6 10:40 **ENVIRONMENTAL AND HEALTH-HAZARDS CHARACTERIZATION OF AIRFALL ASH, RESIDUAL ASH, AND SOILS FROM AREAS BURNED BY 2007–2009 SOUTHERN CALIFORNIA WILDFIRES AT THE WILDLAND-URBAN-AGRICULTURAL INTERFACE**
G.S. Plumlee, T.M. Hoefen, S.A. Morman, P.L. Hageman, D.A. Martin, R. Kokaly, R.E. Wolf, H.A. Lowers, J.M. Holloway, W.M. Benzel, G.P. Meeker, and C. Stricker. U.S. Geological Survey, Denver, CO 80225
- 7 11:00 **ASSESSING THE PHYSICAL AND GEOCHEMICAL IMPACTS OF WILDFIRE ON AN URBAN FRINGE WATERSHED.**
Megan P. Burke and Terri S. Hogue. Water Resources and Hydrology, UCLA, Department of Civil and Environmental Engineering, Los Angeles, CA 90095.
- 11:30–12:30 **Plenary Lecture: Theater**
- 12:30–1:20 **LUNCH BREAK**

- 8 1:20 POST-FIRE DEBRIS-FLOW MONITORING IN THE STATION FIRE: INITIAL OBSERVATIONS FROM IN-SITU MEASUREMENTS OF 11 DEBRIS FLOWS
J.W. Kean and D.M. Staley, U.S. Geological Survey, Denver, CO, 80225
- 9 1:40 EVALUATING CONTROLS ON HYDROLOGIC RECOVERY IN BURNED WATERSHEDS IN THE SAN BERNARDINO MOUNTAINS
Alicia M. Kinoshita and Terri S. Hogue. Water Resources and Hydrology, UCLA, Department of Civil and Environmental Engineering, Los Angeles, CA 90095.

Session: Coastal Sage Scrub Restoration

Location: Alhambra Room

Chair: Ann Dalkey, Palos Verdes Peninsula Land Conservancy

- 10 2:00 VEGETATION MAPPING AND CLASSIFICATION OF THE PALOS VERDES NATURE PRESERVE.
Lily N. Verdone. Palos Verdes Peninsula Land Conservancy, 916 Silver Spur Road, Rolling Hills Estates, CA 90274; lverdone@pvplc.org.
- 11 2:20 COASTAL SAGE SCRUB RESTORATION AND REVEGETATION USING A SUCCESSIONAL MODEL
Margot Griswold, Ph.D., NewFields AER, Restoration Group, Los Angeles, CA 90018
- 12 2:40 IN THE WAKE OF WEED MANAGEMENT: ONE STEP FORWARD, TWO STEPS BACK
J. J. Knapp. Native Range, Incorporated, 4360 East Main Street, Suite A #478, Ventura, California, 93003
- 3:00-3:20 BREAK
- 13 3:20 INVASION AND RESTORATION OF COASTAL SAGE SCRUB: ABOVE AND BELOWGROUND FEEDBACKS
S.J.M. Dickens, E.B. Allen and L.S. Santiago, Department of Botany and Plant Sciences, University of California Riverside, Riverside CA 92521
- 14 3:40 COMPARATIVE PHYSIOLOGY BETWEEN COASTAL SAGE AND CHAPARRAL OF THE SANTA MONICA MOUNTAINS
S.D. Davis¹, A.L. Jacobsen², and R.B. Pratt². ¹Pepperdine University, Natural Science Division, Malibu CA, 90263 and ²California State University, Department of Biology, Bakersfield, CA, 93311.
- 15 4:00 EFFECT OF EXOTIC ANNUAL GRASS REMOVAL ON THE RE-ESTABLISHMENT OF COMMON NATIVE OAK UNDERSTORY SPECIES ON SANTA CATALINA ISLAND, CA
Matthew P. Sutton and Darren R. Sandquist. California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92834-6850.
- 16 4:20 LANDSCAPE RESTORATION IN A COASTAL SAGE SCRUB COMMUNITY
Tara Stark, Dr. Frank Ewers, California State Polytechnic University, Pomona, Biological Sciences Department, Pomona, CA 91768
- 17 4:40 DIETARY HABITS OF *CANIS LATRANS* ON THE PALOS VERDES PENINSULA.
Alfred Fernandez. Palos Verdes Peninsula Land Conservancy, Rancho Palos Verdes, Ca.
- 5:00 Poster Session: Golden Eagle Ballroom

Friday, May 7, 2010

Location: San Gabriel Room

Session: Sustainable Fisheries

Chair: Mark Helvey, NOAA

- 18 8:40 **THE USE OF CATCH SHARES IN SUSTAINABLE FISHERIES**
M. Helvey, NOAA National Marine Fisheries Service, Sustainable Fisheries Division, Long Beach, California, 90802.
- 19 9:00 **HOW A SNOUT BECOMES A LAW: CODED WIRE TAGS AND THE ENDANGERED SACRAMENTO RIVER WINTER CHINOOK SALMON**
D. Lawson, National Marine Fisheries Service, Southwest Region, Protected Resources Division, Long Beach, CA, 90802.
- 20 9:20 **DOLPHIN SAFE LABELING AND THE TUNA TRACKING PROGRAM**
C. D'Angelo, NOAA National Marine Fisheries Service, Southwest Region, Sustainable Fisheries Division, Long Beach, CA 90802
- 21 9:40 **LARGE WHALE ENTANGLEMENT RISK ASSESSMENT, UNITED STATES WEST COAST**
L. Saez, D. Lawson, S. Wilkin, E. Petras, M. DeAngelis, and C. Fahy. National Marine Fisheries Service, Protected Resources Division, Long Beach, CA, 90802.
- 10:00–10:20 **BREAK**
- 22 10:20 **ECONOMIC IMPACT ANALYSIS FOR INFORMING DESIGNATION OF CRITICAL HABITAT FOR THE ENDANGERED LEATHERBACK SEA TURTLE**
C.M. Pinkerton and K.L. Hodges (Contractor), National Marine Fisheries Service, Sustainable Fisheries Division, Long Beach, CA, 90802.
- 23 10:40 **NOAA FISHERIES SERVICE RECREATIONAL FISHERIES DATA COLLECTION PROGRAMS**
M.F. Golden, NOAA Fisheries Service, Long Beach, CA 90802
- 25 11:00 **IDENTIFICATION OF SEAFOOD SUBSTITUTION IN THE LOS ANGELES MARKETPLACE USING DNA SEQUENCING**
L.V. Plough¹, Anderson, D.², and Hedgecock, D.¹Department of Biological Sciences, University of Southern California, Los Angeles CA, 90089 2 Aquarium of the Pacific, Long Beach, CA, 90802
- 11:30–12:30 **Plenary Lecture: Theater**
- 12:30–1:20 **LUNCH BREAK**

Friday, May 7, 2010

Location: San Gabriel Room

Session: Rocky Reefs: Preparing for MPA's

Chair: Robert Grove, Southern California Edison

- 26 1:20 **PLACEMENT AND EARLY COMMUNITY DEVELOPMENT OF A NEW ARTIFICIAL REEF IN SANTA BARBARA COUNTY, CA**
P.R. Krause, ARCADIS US, Inc. 4640 Admiralty Way, Marina del Rey, CA 90292.
- 27 1:40 **AN ASSESSMENT OF REEF FISH COMMUNITIES ON ARTIFICIAL AND NATURAL REEFS IN THE SOUTHERN CALIFORNIA BIGHT**
J.E. Granneman and M. Steele. Department of Biology, Northridge, CA, 91330.

- 28 2:00 **A NEW METHOD TO ASSESS WATER QUALITY AND URBAN IMPACT IN CALIFORNIA ROCKY REEF SYSTEMS: MEASURING METAL CONCENTRATIONS IN KELP (*M. PYRIFERA*) SIEVE TUBE SAP.**
L.A. Fink* California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 *Current address: Vantuna Research Group, Occidental College, 1600 Campus Rd., Los Angeles, CA 90041
- 29 2:20 **RESOURCE-LIMITED REGULATION AND COHERENCE IN OC/SD KELP BEDS: A CASE STUDY OF SAN ONOFRE KELP.**
Eric F. Miller, MBC Applied Environmental Sciences, 3000 Red Hill Ave., Costa Mesa, CA 92626
- 30 2:40 **KELP, I NEED SOMEBODY**
T.K. Ford, and B.M. Meux. Santa Monica Baykeeper, 120 Broadway, Suite 105, Santa Monica, CA 90401
- 3:00–3:20 **BREAK**
- 31 3:20 **GETTING TO KNOW YOUR SOUTH COAST MPAS: NEARSHORE ROCKY REEF ECOLOGY OF POINT VICENTE SMR**
J.P. Williams and D.J. Pondella, II. And Jeremy T. Claisse; Vantuna Research Group, Occidental College, Department of Biology, Los Angeles, CA, 90041.
- 32 3:40 **LIFE HISTORY INFORMATION CAN IMPROVE UNDERSTANDING OF MPA EFFECTS FOR A VALUABLE FISHERY SPECIES**
J.T. Claisse. Vantuna Research Group, Occidental College, Department of Biology, Los Angeles, CA, 90041.
- 33 4:00 **REFINING MPA MONITORING TO MEET MLPA REQUIREMENTS**
E.A. Whiteman and C.A. Recchia. MPA Monitoring Enterprise, California Ocean Science Trust, 1330 Broadway, Suite 1135, Oakland, CA 94612
- 34 4:20 **THE STATUS OF MAINLAND REEFS IN THE SOUTHERN CALIFORNIA BIGHT**
D.J. Pondella, II. Department of Biology and Vantuna Research Group, Moore Laboratory of Zoology, Occidental College, 1600 Campus Rd. Los Angeles, CA 90041
- 35 4:40 **THE EXISTENCE, IMPORTANCE, AND CONTRIBUTION OF FISH SPAWNING AGGREGATIONS TO THE ECOSYSTEMS AND FISHERIES OF THE TEMPERATE WATERS OFF SOUTHERN CALIFORNIA.**
Larry G. Allen¹ and Brad E. Erisman² ¹Southern California Marine Institute, Terminal Island, CA 2-Scripps Institute of Oceanography, La Jolla, CA
- 5:00 **Poster Session: Golden Eagle Ballroom**

Friday, May 7, 2010

Location: Montebello Room

Session: Microbiology; Beyond Human Disease

Chair: Graciela Brelles-Marino, California State Polytechnic University

- 9:00 **INTRODUCTIN TO SYMPOSIA**
Graciela Brelles-Marino
- 36 9:20 **VIABILITY OF BACILLUS PUMILUS SAFR-032 SPORES AFTER EXPOSING TO SPACE AND SIMULATED MARS CONDITIONS USING EXPOSE EUTEF MODULE**
Kasthuri Venkateswaran. Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA
- 37 9:40 **UNEXPECTED INCREASES IN MICROBIAL DIVERSITY ALONG A SALINITY GRADIENT IN A SOLAR SALTERN IN BAJA CA, MEXICO**
Jesse Dillon¹, Mark Carlin¹, Andriana-Amparo Gallegos¹, Nathan McLain¹, Shereen Sabet^{1,2}, ¹California State University, Department of Biological Sciences, Long Beach, CA 90840 ²Current address: LaSierra University, Department of Biology, Riverside, CA 92515

- 10:00–10:20 BREAK
- 38 10:20 SHOULD I STAY OR SHOULD I GO? INSIGHTS INTO THE PHYSIOLOGICAL ECOLOGY OF *VARIOVORAX PARADOXUS*.
Paul M. Orwin, California State University San Bernardino, Department of Biology, San Bernardino, CA, 92407.
- 39 10:40 BACTERIAL BIOFILM INACTIVATION BY GAS DISCHARGE PLASMA: AN OVERVIEW.
Graciela Brelles-Mariño, Biological Sciences Department, California State Polytechnic University, Pomona, CA 91768.
- 40 11:00 BATTLING *Pseudomonas* BIOFILM WITH GAS DISCHARGE PLASMA
A. Zelaya⁽¹⁾, S. Lwin⁽¹⁾, G. Stough⁽²⁾, N. Rad⁽²⁾, K. Vandervoort⁽²⁾, and G. Brelles-Mariño⁽²⁾, California State Polytechnic University, Pomona, ⁽¹⁾Department of Biological Sciences, ⁽²⁾Department of Physics, Pomona, CA, 91768.
- 11:30–12:30 Plenary Lecture: Theater
- 12:30–1:20 LUNCH BREAK

Friday, May 7, 2010

Location: Montebello Room

Session: Microbiology; Beyond Human Disease (cont.)

Chair: Graciela Brelles-Marino, California State Polytechnic University

- 41M 1:40 BIOFILM FORMATION OF STAPHYLOCOCCUS EPIDERMIDIS AND PSEUDOMONAS AERUGINOSA ON Ti-6AL-4V AND Ti-6AL-4V-BORON ALLOYS
Jessamine Quijano¹, Scott Marzano¹, Graciela Brelles-Mariño¹, Vilupanur Ravi² and Steve Alas¹. ¹Department of Biological Sciences and ²Department of Chemical & Materials Engineering, California State Polytechnic University, Pomona, CA 91768
- 42 2:00 A BACTERIAL SIGNALING PATHWAY CRITICAL FOR A RHIZOBIA-PLANT SYMBIOSIS
Esther J. Chen¹, Robert F. Fisher², Virginia M. Perovich¹, Erich A. Sabio¹, and Sharon R. Long². ¹Department of Biological Science, College of Natural Sciences and Mathematics, California State University Fullerton, Fullerton, CA 92834-6850; ²Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020.
- 43 2:20 ISOLATION AND CHARACTERIZATION OF OIL-RICH ALGAL STRAINS FOR AGRICULTURAL WASTE WATER TREATMENT AND AS A FEEDSTOCK FOR BIOFUEL PRODUCTION
Marcia Murry, mmewers@csupomona.edu, Microbiology, College of Science Hossein Ahmadzadeh, mhahmadzadeh@csupomona.edu, Department of Chemistry, Cal Poly Pomona.
- 44 2:40 HERPES SIMPLEX VIRUS TYPE-1 (HSV-1) USES ZEBRAFISH ENCODED 3-OST-3 RECEPTOR TO MEDIATE ENTRY AND SPREAD.
S. Hubbard, and Tiwari, V. Western University of Health Sciences, Department of Basic Medical Sciences, Pomona CA, 91766.
- 3:00–3:20 BREAK
- 45 3:20 GLUTATHIONE AND CONTROL OF *MYCOBACTERIUM TUBERCULOSIS* INFECTION
Dr. Vishwanath Venketaraman, Assistant Professor, Western University of Health Sciences, 309 East Second Street, Pomona, CA 91766. USA

- 46 3:40 **THE NOVEL IDENTIFICATION OF ACIDOCHROMOGENESIS IN NONTUBERCULOUS MYCOBACTERIA**
Beatrice Saviola, Basic Medical Sciences, College of Osteopathic Medicine, Western University of Health Sciences, Pomona, CA, 91767
- 4:00 **Concluding Remarks,**
Moselio Schaechter Distinguished Professor, emeritus, Tufts University School of Medicine, Boston Adjunct Professor Emeritus, Department of Biology, San Diego State University
- 5:00 **Poster Session: Golden Eagle Ballroom**

Friday, May 7, 2010

Location: Pasadena Room

SESSION: Applications of Long Term Data Collection Programs

MODERATOR: Mary Elaine Helix, U.S. Minerals Management Service

- 8:45 **INTRODUCTION**
Mary Elaine Helix, U.S. Minerals Management Service
- 47 9:00 **STUDYING ROCKY REEFS AND FISHES OF THE SOUTHERN CALIFORNIA BIGHT; FOUR DECADES OF RESEARCH**
D.J. Pondella, II, Department of Biology and Vantuna Research Group, Moore Laboratory of Zoology, Occidental College, 1600 Campus Rd. Los Angeles, CA 90041
- 48 9:20 **LONG-TERM MONITORING PROGRAM CHALLENGES – MARINE, THE MULTI-AGENCY ROCKY INTERTIDAL NETWORK.**
M.E.Helix, U.S. Minerals Management Service, 1111 Jackson St. Ste. 520 Oakland, CA, 94607
- 49 9:40 **CLIMATE AFFECTS RESPONSE OF AN ISLAND ENDEMIC PLANT TO REMOVAL OF INVASIVE HERBIVORES**
A. Kathryn McEachern, USGS-WERC, Channel Islands Field Station, 1901 Spinnaker Dr., Ventura, CA 93001. Diane M. Thomson. Claremont Joint Science Department, The Claremont Colleges 925 N. Mills Ave., Claremont, CA 91711. Katherine A. Chess. Colorado Plateau Cooperative Studies Unit, Northern Arizona University, 1298 S. Knowles Ave., Flagstaff, AZ 86001.
- 10:00–10:20 **BREAK**
- 50 10:20 **SH%T HAPPENS: HOW DESIGNING REDUNDANCY INTO A MONITORING PROGRAM CAN HELP EXORCISE INTRUDING DEMONS AND INCREASE THE OPTIONS FOR ANALYSIS AND ABILITY TO DETECT CHANGE**
J. R. Steinbeck, Tenera Environmental Inc., 141 Suburban Rd. Suite A2, San Luis Obispo, CA 93401
- 51 10:40 **DEVELOPMENT OF A SOUTHERN CALIFORNIA REGIONAL EELGRASS MONITORING PROGRAM**
W. B. Chesney, NOAA's National Marine Fisheries Service (NMFS), Habitat Conservation Division, Long Beach, CA, 90802.
- 52 11:00 **BALLONA WETLANDS BASELINE ASSESSMENT PROGRAM: APPLICATIONS FOR RESTORATION.**
K.K. Johnston and S.P. Bergquist. Santa Monica Bay Restoration Commission, Los Angeles, CA, 90045.
- 11:30–12:30 **Plenary Lecture: Theater**
- 12:30–1:20 **LUNCH BREAK**

Friday, May 7, 2010

Location: Pasadena Room

Session: Contributed Papers

Chair: Jonathan Baskin, California State Polytechnic University, Pomona

- 53 1:20 **DISCUSSION OF THE VARIABILITY IN THE POLYCHAETE *Neanthes acuminata* SPECIES COMPLEX: A PROGRESS REPORT**
Donald J. Reish¹, Joerg D. Hardege², David Lunt², Maggy Harley² and Ellen J. Storey²
¹Department of Biological Sciences, California State University, Long Beach ²Department of Biological Sciences, Hull University, Hull, United Kingdom
- 54 1:40 **PREVALENCE OF CYANOBACTERIAL TOXINS ALONG A NUTRIENT DISTURBANCE GRADIENT IN SOUTHERN CALIFORNIA LAKES**
T. M. Magrann, S. G. Dunbar, PhD, M. Sutula, PhD, and D. Boskovic, PhD, Marine Research Group, Loma Linda University, Department of Earth and Biological Sciences, Loma Linda, CA, 92350.
- 55E 2:00 **FOOD HABITS AND PREY SELECTIVITY OF THE CALIFORNIA GRUNION (*LEURESTHES TENUIS*) IN THE WATER COLUMN NEAR SPAWNING BEACH IN ORANGE COUNTY**
B.A. Higgins and M.H. Horn. California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92834.
- 56F 2:20 **DOES DELAYED HATCHING IN THE CALIFORNIA GRUNION, *LEURESTHES TENUIS*, AFFECT LARVAL SURVIVAL?**
Helena Aryafar and Kathryn Dickson, California State University Fullerton, Department of Biological Science, 800 N. State College Blvd. Fullerton CA 92834-6850
- 57 2:40 **HETEROCHRONY IN DEVELOPMENT DURING EXTENDED INCUBATION IN CALIFORNIA GRUNION**
C. L. Moravek and K. L. Martin. Pepperdine University, Department of Biology, Malibu, CA 90263-4321.
- 3:00–3:20 **BREAK**
- 58E 3:20 **INFLUENCE OF WATER TEMPERATURE ON SITE FIDELITY AND HABITAT USE OF GRAY SMOOTH-HOUND SHARKS IN A NEWLY RESTORED ESTUARINE HABITAT**
M. Espinoza, T. Farrugia and C. Lowe. California State University, Long Beach, Department of Biological Sciences, Long Beach, CA, 90040.
- 59E 3:40 **FINE SCALE MOVEMENT PATTERNS OF THE CALIFORNIA HALIBUT, *PARALICHTHYS CALIFORNICUS*, IN A NEWLY RESTORED SOUTHERN CALIFORNIA ESTUARY**
C. L. Espasandin, E. Fox, C. Whitcraft, B. Allen and C. G. Lowe, California State University, Long Beach, Department of Biological Sciences, Long Beach, CA 90840
- 60E 4:00 **ABUNDANCE, HABITAT USE AND MOVEMENT PATTERNS OF THE SHOVEL-NOSE GUITARFISH (*RHINOBATOS PRODUCTUS*) IN A SOUTHERN CALIFORNIA ESTUARY**
T.J. Farrugia, M. Espinoza and C.G. Lowe. California State University Long Beach, Department of Biological Sciences, Long Beach, CA 90840.
- 61E 4:20 **EFFECTS OF A PARTIAL DIET OF PIPEFISH, A LOW-QUALITY PREY, ON THE GROWTH OF CAPTIVE ELEGANT TERN CHICKS**
T. J. Flisik and M. H. Horn, Department of Biological Science, California State University, Fullerton, 800 N. State College Blvd., Fullerton, CA, 92831-3599.
- 62 4:40 **TEMPORAL AND SPATIAL PATTERNS IN ABUNDANCE AND DIVERSITY OF FISH ASSEMBLAGES IN A NEWLY RESTORED SOUTHERN CALIFORNIA COASTAL WETLAND.**
E.J. Fox, C.L. Espasandin, C. Whitcraft, C.G. Lowe, and B.J. Allen. California State University, Long Beach, Department of Biological Sciences, Long Beach, CA, 90840.
- 5:00 **Poster Session: Golden Eagle Ballroom**

Friday, May 7, 2010 5 p.m.
Location: Golden Eagle Ballroom

Session: Poster Session

- 63E **SEASONAL AND TIDAL VARIATION OF FECAL INDICATOR BACTERIA IN THE BALLONA WETLANDS, LOS ANGELES COUNTY, CALIFORNIA**
Lizzy Bairstow, and Karina Johnston. The Center for Santa Monica Bay Studies, Loyola Marymount University, Department of Natural Science, Los Angeles, CA 90045.
- 64M **THE EFFECTS OF DELAYED HATCHING ON SKELETAL AND MUSCLE DEVELOPMENT IN LARVAE OF THE CALIFORNIA GRUNION, *LEURESTHES TENUIS***
H. Bansuan, J. Masumi, A. Miranda, T. Treybig, and K.A. Dickson, California State University Fullerton, Department of Biological Science, Fullerton, CA, 92834.
- 65P **TECTONIC IMPLICATIONS OF BASALTIC VOLCANISM IN THE OWENS VALLEY, CALIFORNIA**
Jessica J. Bruns and David R. Jessey. Geological Sciences Dept., California Polytechnic University – Pomona, Pomona, CA 91768.
- 66 **SCIENCE IN SUPPORT OF COMMUNITY RESILIENCY: THE U.S. GEOLOGICAL SURVEY MULTI HAZARDS DEMONSTRATION PROJECT RESPONSE TO THE 2009 STATION FIRE**
S.H. Cannon, R.N. Fisher, M.N. Hanshaw, T.M. Hoefen, L.M. Jones, J.W. Kean, S.C. Perry, G.S. Plumblee, K.M. Schmidt, and D.M. Staley. U.S. Geological Survey.
- 67 **GRAIN SIZE ANALYSIS AND MECHANICS OF THE 2008 MOUNT WHITNEY FISH HATCHERY MUDFLOW ON THE EASTERN SLOPE OF THE SIERRA NEVADA, INDEPENDENCE, CALIFORNIA**
Ivan P. Colburn Department of Geological Sciences, California State University Los Angeles, Los Angeles, California 90032
- 68P ***EQUUS* MATERIAL FROM THE LA HABRA FORMATION, RALPH B. CLARK REGIONAL PARK, BUENA PARK, ORANGE COUNTY, CALIFORNIA.**
M.K. Crowe and L. Babilonia, Ralph B. Clark Regional Park, Interpretive Center, 8800 Rosecrans Ave. Buena Park, CA, 90621.
- 69 **TEMPORAL AND SPATIAL TRENDS MICROCLIMATE FOR THREE SPECIES OF COASTAL SAGE SCRUB ON THE PALOS VERDES PENINSULA.**
Dalkey¹, A., T. Burns², and D. Huh³. ¹Palos Verdes Peninsula Land Conservancy, Rolling Hills Estates, CA, 90274; ²Long Beach Polytechnic High School, Long Beach, CA, 90813; ³Palos Verdes Peninsula High School, Rolling Hills Estates, CA 90274.
- 70E **IS A NEWLY DISCOVERED CHITON BROODER ON SANTA CATALINA ISLAND AN UNDESCRIBED SPECIES?**
L. D. Froman and D. J. Eernisse, Cal State Fullerton, Department of Biology, Fullerton, CA, 92834-6850
- 71M **BIOLOGICAL ACTIVITY: THE IMPORTANCE OF FUNCTIONAL GROUPS ON (E)-4,4'-DISUBSTITUTED STILBENES TOWARDS CELL PROTECTION.**
G.X. Garcia, S.W. Larsen, C. Pye, R. Isovitsch, and E.A. Fradinger. Whittier College, Departments of Biology and Chemistry, Whittier, CA, 90608.
- 72M **EFFECTS OF GLUTATHIONE ON DENDRITIC CELL RESPONSE TO *MYCOBACTERIUM TUBERCULOSIS* INFECTION**
Brenda Gonzalez^{1, 2}, Karanjodh Johal¹, Carlos Guerra¹, Alan Cundari¹, John Chan² and Vishwanath Venketaraman^{1, 2*} ¹California State Polytechnic University, Pomona, CA, ²College of Osteopathic Medicine of the Pacific, Western University of Health Sciences, CA 92336.
- 73 **COMPONENTS OF INNATE IMMUNITY AND ADAPTIVE IMMUNITY IN COOPERATION WITH INCREASED GLUTATHIONE LEVELS AGAINST *MYCOBACTERIUM TUBERCULOSIS* INFECTED MONOCYTES**
Vishwanath Venketaraman^{1, 2*}, Karanjodh Johal¹, Brenda Gonzalez¹ and Carlos Guerra¹
¹Western University Of Health Sciences, College Of Osteopathic Medicine Of The Pacific, Department Of Basic Medical Sciences, Pomona, CA, 91766

- 74E **ASSESSMENT OF FLORAL AND INSECT BIODIVERSITY OF BALLONA WETLANDS**
N.M. Hall and B.T. Bergstrom, Santa Monica Bay Restoration Commission, Loyola Marymount University, Department of Natural Science, Los Angeles, CA, 90045
- 75E **PREY DELIVERED BY THE CALIFORNIA LEAST TERN TO ITS NESTING COLONY AT THE SEAL BEACH NATIONAL WILDLIFE REFUGE, 1996-2009.**
Michael Horn¹, Charles Collins², and Jeanette Hendricks¹, ¹Department of Biological Science, California State University Fullerton, 800 North State College Blvd, Fullerton, CA 92834. ²Department of Biological Sciences, California State University, Long Beach, 1250 Bellflower Blvd, Long Beach, CA 90840.
- 76E **RODENT COMMUNITY STRUCTURE AND MICROHABITAT ASSOCIATIONS AT THE BERNARD FIELD STATION, CLAREMONT, CALIFORNIA.**
L.A. Herington, L. Bledsoe, L. Davis, A. Degrassi, J. Edwards, P. Gonzalez, C. Hauser, B. Kronenfeld, J. Lee, C. Mirzaian, T. Oberg, E. Ortiz, E. Peralta, T. Sterner, T. Treybig and P. Stapp. Department of Biological Science, California State University, Fullerton, CA 92831.
- 78E **CRYPTIC SPECIES AND SYNONYMS: A RECLASSIFICATION OF THE TROPICAL SPURILLA GENUS**
Bonnie R. Lei, Walnut High School, 400 North Pierre Road, Walnut, CA 91789. Department of Biological Sciences, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, CA 91768-4032.
- 79P **NUTRIENT ANALYSIS OF THE BALLONA SALTWATER MARSH, ESTAUARY AND CREEK**
Dominic Leone and John Dorsey, Santa Monica Bay Restoration Commission, Loyola Marymount University, Department of Natural Science, Los Angeles, CA, 90045
- 80M **REVIEW OF ETIOLOGY, HISTOPATHOLOGY, IMMUNOHISTOCHEMISTRY AND DIAGNOSTIC TOOLS FOR SJÖGRENS SYNDROME.**
Sarita S. Mantravadi, CSU Dominguez Hills
- 81E **METHODS FOR SAMPLING LARGE AND MEDIUM MAMMALS IN BALLONA WETLANDS**
McKenna, Lauren, Karina Johnston, and John Dorsey, Loyola Marymount University, Natural Science Department, Los Angeles, CA 90045.
- 82M **EXAMINING MULTIPLE AGO GENE CONSTRUCTS IN THE PRESENCE OF P0 TO OBSERVE THE ABILITY OF P0 TO TARGET AGO FOR DEGRADATION**
Chad Morris, CSU Fullerton
- 83M **THE ESTROGENIC EFFECTS OF DIETHYLSTILBESTROL ON THE MATURATION AND DIFFERENTIATION OF EMBRYONIC THYMOCYTES**
Faraj Mourad, University of La Verne, Biology Department, La Verne, CA, 91750
- 84F **THE EFFECTS OF OCEANOGRAPHIC VARIABILITY AND FISHING PRESSURE ON FISH POPULATIONS AT ROCKY POINT.**
Chelsea Munoz, Mackenzie Hansler, and Drew Hanson. Vantuna Research Group, Occidental College, Department of Biology, Los Angeles, CA, 90041
- 85E **EVALUATING WILDLIFE CORRIDOR LINKAGES: DO FREEWAY UNDERPASSES CONNECT THE PENINSULAR AND TRANSVERSE MOUNTAIN RANGES?**
L. Murphy, M.F. Allen, and C.W. Barrows. Center for Conservation Biology, University of California, Riverside, CA 92521-0334, USA.
- 86M **ADMINISTRATION OF DAIDZEIN, A SOYA DERIVED PHYTOESTROGEN, IS CORRELATED WITH AN INCREASE IN LIFESPAN WITHIN THE NEMATODE *C. ELEGANS***
J. M. Ochoa and S.A. Vetrone, Biology Department, Whittier College, Whittier, CA 90608
- 87M **EARLY DEVELOPMENTAL EXPOSURE TO CHLORPYRIFOS AFFECTS THE CHOLINERGIC NERVOUS SYSTEM OF THE ZEBRAFISH.**
G. Orona, F. Radoniqi, S. Han, and E.A. Fradinger. Whittier College, Department of Biology, Whittier, CA, 90608.
- 88E **THE EFFECTS OF THERMAL STRESS ON FILTRATION RATES OF NON-NATIVE *CRASSOSTREA GIGAS* AND NATIVE *OSTREA LURIDA* OYSTERS**
Sara Pfremmmer and Patricia Gonzalez, Southern California Ecosystems Research Program (NSF-UMEB), California State University Fullerton, Department of Biological Sciences, Fullerton, CA, 92831

- 89M **EARLY ONSET OF THE LEGUME-RHIZOBIA SYMBIOSIS: DETECTION OF EARLY NODULIN GENE ACTIVITY IN *M. truncatula* SEEDS FOLLOWING NOD FACTOR EXPOSURE.**
G. A. Ramirez, B. Boschetto and G. Brelles-Mariño, California State Polytechnic University, Pomona, Biological Sciences Department, Pomona, CA, 91768.
- 90E **ECOLOGY AND BIOGEOGRAPHY OF THE ROCKY INTERTIDAL FISH COMMUNITY IN THE WESTERN COAST OF THE BAJA CALIFORNIA PENINSULA**
Ramirez-Valdez, A.¹, G. Ruiz-Campos², F. Correa-Sandoval³ and E. Carpizo-Ituarte³.
¹Facultad de Ciencias Marinas, Universidad Autónoma de Baja California, Km. 103 Carr. Tijuana-Ensenada, AP 653, Ensenada, Baja California, 22800, México. ²Colección Ictiológica, Facultad de Ciencias, Universidad Autónoma de Baja California, Km. 103 Carr. Tijuana-Ensenada, AP 233, Ensenada, Baja California, 22800, México. ³Instituto de Investigaciones Oceanológicas, Universidad Autónoma de Baja California, Carr. Tijuana-Ensenada Km. 107, Ensenada, Baja California., México. 22890.
- 91 **GEOCHEMISTRY AND METALS DISTRIBUTION IN SEDIMENTS OF SOUTHERN TOGO RIVERS WATERSHED, WEST AFRICA**
Rezaie-Boroon, M.H., California State University Los Angeles, Geological Sciences Department, CA 90032, mrezaie@calstatela.edu Gnandi, K., University of Lomé, Science Department, Lomé, Togo, West Africa, kgnandi@yahoo.fr Tomety-Mensah Folly, K., University of Lomé, Science Department, Lomé, Togo, West Africa tomensfol@yahoo.fr
- 92 **GEOCHEMISTRY AND SEDIMENTOLOGY OF EOCENE PHOSPHATE DEPOSITS IN WEST AFRICA**
Rezaie-Boroon, M.H., California State University Los Angeles, Geological Sciences Department, CA 90032, mrezaie@calstatela.edu Ramirez, P., California State University Los Angeles, Geological Sciences Department, CA 90032, pramire@calstatela.edu Gnandi, K., University of Lomé, Science Department, Lomé, Togo, West Africa, kgnandi@yahoo.fr
- 93M **A STUDY OF MICROBIAL MAT CONIFORM STRUCTURES FOUND IN OCTOPUS SPRING, YELLOWSTONE NATIONAL PARK**
Kristina Reyes, David Cho, Nahal Ghahremani, and Hope A. Johnson, California State University, Fullerton, Department of Biology, Fullerton, CA 92831
- 94M **LOSS OF VIRAL RESISTANCE RECOGNITION THROUGH MUTAGENESIS OF THE SILENCING SUPPRESSOR P0.**
D.S. Schafer and M. Sacco. Sacco Research Lab, California State University, Fullerton, Department of Biology, Fullerton, CA, 92831.
- 95E **THE EFFECT OF WILDFIRE UPON WILD CANID VISITATION TO THE PORTUGUESE BEND NATURE PRESERVE**
Peter Smolke¹, Alfred Fernandez², Ann Dalkey³. ¹Palos Verdes Peninsula High School, Rolling Hills Estates, CA90274; ²Harbor City College, Long Beach, CA, 90813; Palos Verdes Peninsula Land Conservancy, Rolling Hills Estates, CA, 90274.
- 96M **INVESTIGATION OF THE EFFECTS OF METHOXYCHLOR METABOLITE, HPTE, ON EMBRYONIC DEVELOPMENT OF T-CELLS IN C57BL/6**
Dr. Christine Broussard and D.M. Sortillon, University of La Verne, Department of Biology, La Verne, CA, 91750
- 97E **HERPETOFAUNA SURVEYS IN THE BALLONA WETLANDS**
Benjamin Stava, Loyola Marymount University.
- 98E **PARASITIC INFECTION OF THE VENTRAL EPIDERMIS OF *CROCODYLUS ACUTUS* AND *CROCODYLUS MORELETII* IN BELIZE**
M. Tellez¹ and I. Paquet-Durand² ¹Department of Ecology and Evolutionary Biology, University of California, Los Angeles, California, 90095-1606, U.S.A. ²Galen University, 62.5 Western Highway, San Ignacio, Cayo District, Belize.
- 99E **THE EFFECTS OF ILLUMINATION, SCENT, AND MICROHABITAT AS PREDATOR CUES ON THE FORAGING BEHAVIOR OF MOJAVE DESERT RODENTS**
Bryan White and Anthony Garcia, Southern California Ecosystems Research Program (NSF-UMEB), California State University Fullerton, Department of Biological Sciences, Fullerton, CA, 92831

- 100M THE EFFECT OF CO-ADMINISTRATION OF GENISTEIN AND DAIDZEIN ON THE LIFESPAN OF THE NEMATODE *C. ELEGANS*.
E.D. Zamora and S.A. Vetrone
- 129E DYNAMICS OF FECAL INDICATOR AND OTHER BACTERIA DURING VARYING TIDAL CONDITIONS IN DEL REY LAGOON, PLAYA DEL REY, CALIFORNIA
J.J. Huh, J.T. Valdez, J. Dorsey. Leonetti-O'Connell Honors Research in Science, Loyola Marymount University and Marlborough School, Department of Natural Sciences, Los Angeles, CA, 90015 and 90004.
- 130P IMPROVING ELEVATOR SCHEDULING EFFICIENCY BY IMPLEMENTING A SMARTER CONTROLLER
Kenny Lei. Walnut High School, 400 N. Pierre Road, Walnut, CA 91789. California State Polytechnic University, Pomona, 3801 W. Temple Avenue, Pomona, CA 91768.
- 131M AN INVESTIGATION OF RADIOISOTOPES AND E.COLI LEVELS IN SANTA MONICA BEACH
A. R. Kelleghan. Notre Dame Academy, Los Angeles, CA and University of Southern California, Los Angeles, CA

Saturday, May 8, 2010

Location: Montebello Room

Session: Contributed papers

Chair: Brad Blood: Psomas

- 101M 9:00 RECURRENCE REGULATION IN COLON CANCER: EXTRACELLULAR WNT SIGNALING DETERMINES RECURRENCE POTENTIAL THROUGH REDUCTION OF THE CLONOGENIC CELLS NUMBER BY INHIBITORS DKK1 AND SFRP1
A. Planutis, Dr. Holcombe's Lab, Hematology/Oncology, Department of Medicine, University of California, Irvine, CA, 92697.
- 102E 9:20 A STUDY OF RECENT GENETIC BOTTLENECKS USING INVASIVE GOBIES, *TRIDENTIGER BARBATUS* AND *TRIDENTIGER BIFASCIATUS*, IN SAN FRANCISCO BAY SUGGESTS A TEMPORALLY SHORT RECOVERY PERIOD
JoAnne Linnenbrink and Raymond R. Wilson, Jr. California State University Long Beach, Department of Natural Sciences, Long Beach, CA, 90804
- 103E 9:40 PHENOLOGICAL AND PHYSIOLOGICAL RESPONSE OF AN INVASIVE SPECIES *CENTUAAREA MELINTENSIS* UNDER DIFFERENT AMOUNTS OF SOIL NITROGEN SUPPLY
S.Y. Woo, J. Moroney, R. Sharifi, and P.W. Rundel. University of California, Los Angeles, Department of Ecology and Evolutionary Biology
- 10:00-10:20 BREAK
- 104 10:20 SHOULD MITOCHONDRIAL DNA SEQUENCES BE USED IN PHYLOGENETIC STUDIES?
Donald G. Buth, Dept. of Ecology and Evolutionary Biology, University of California (UCLA), Los Angeles, CA 90095-1606
- 105M 10:40 EFFECTS OF DELAYED HATCHING ON MUSCLE AND SKELETAL DEVELOPMENT, SWIMMING ACTIVITY, AND FEEDING RATE IN LARVAL CALIFORNIA GRUNION, *LEURESTHES TENUIS*
T. Treybig, A. Carrillo, and K. Dickson. California State University Fullerton, Department of Biological Science, Fullerton, CA, 92834.
- 106E 11:00 ECOPHYSIOLOGICAL STUDY OF *RUSCUS ACULEATUS* AND *R. MICROGLOSSUM*: MORPHOLOGY, GAS EXCHANGE, AND HYDRAULICS
A. Pivovarov, R. Sharifi, L. Sack, and P. Rundel. UCLA, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095-1606.
- 11:30-12:30 Plenary Lecture: Theater
- 12:30-1:20 LUNCH BREAK

Saturday, May 8, 2010
Location: Montebello Room

Session: Contributed papers (cont.)

Chair: Brad Blood, Psomas

- 107F 1:20 **INCORPORATING ANIMAL BEHAVIOR AND ENVIRONMENTAL EDUCATION INTO CONSERVATION BIOLOGY**
D. T. Richardson. Narguizian Lab, California State University, Los Angeles, Department of Biological Sciences, Los Angeles, CA, 90032
- 108E 1:40 **GENETIC VARIATION IN POPULATIONS OF THE INTRODUCED EASTERN FOX SQUIRREL (*SCIURUS NIGER*) IN CALIFORNIA**
S. Claytor, A. Muchlinski, and E. Torres. California State University-Los Angeles, Department of Biological Sciences, Los Angeles, CA 90032
- 109E 2:00 **THE EASTERN FOX SQUIRREL AS AN INVASIVE SPECIES: APPEARANCE AT RANCHO SANTA ANA BOTANIC GARDEN, CLAREMONT, CA**
B. Gatza and A. Muchlinski. California State University-Los Angeles, Department of Biological Sciences, Los Angeles, CA 90032
- 110E 2:20 **FACTORS THAT ALLOW THE NATIVE WESTERN GRAY SQUIRREL (*SCIURUS GRISEUS*) AND THE INTRODUCED EASTERN FOX SQUIRREL (*SCIURUS NIGER*) TO COEXIST IN CERTAIN HABITATS WITHIN SOUTHERN CALIFORNIA**
S. M. Lewis and A. E. Muchlinski. California State University-Los Angeles, Department of Biological Sciences, Los Angeles, CA 90032
- 111M 2:40 **CHANGING SEXES IN A COMPLEX ENVIRONMENT - SHIFTS IN SKELETAL MYOSIN ISOFORMS IN COASTAL POPULATIONS OF CALIFORNIA SHEEP-HEAD**
J.N. Bartlett, K.M. Loke, K.Young, C. Lowe and B.C. Rourke. California State University, Long Beach, Department of Biological Sciences, Long Beach, CA 90840.
- 3:00–3:20 **BREAK**
- 112 3:20 **VENUS: EARTH'S TWIN PLANET AND ABSENCE OF SURFACE OCEANS**
Kent D. Trego, Center for Planetary Oceans, Nautilus Oceanic Institute, La Jolla, California 92037
- 113 3:40 **CONSIDERATION OF INTERNAL OCEANS IN THE MOONS OF SATURN AFTER THE CASSINI MISSION**
Kent D. Trego, Center for Planetary Oceans, Nautilus Oceanic Institute, La Jolla, California 92037
- 114 4:00 **THE DWARF PLANET CERES AND THE POSSIBILITY OF OF AN INTERNAL OCEAN**
Kent D. Trego, Center for Planetary Oceans, Nautilus Oceanic Institute, La Jolla, California 92037

SATURDAY, May 8, 2010
Location: Pasadena Room

Session: Research Training Program

Chair: Gloria Takahashi La Habra High School

- 115 9:00 **COMPARISON OF THE EFFECTIVENESS OF TRANSCUTANEOUS ELECTRICAL NERVE STIMULATION AND ACUPUNCTURE ON LOWER BACK PAIN**
Michelle Zhao 4911 Maplewood Avenue LA, CA 90004

- 116 9:20 **REDUCING POLLUTION THROUGH GREEN ROOFS: A PHOTOSYNTHETIC STUDY.**
C. A. Frost, Drennan Biology Lab, Loyola Marymount University, Department of Biology, Los Angeles, CA.
- 117 9:40 **HIDDEN IN PLAIN SIGHT: IDENTIFICATION AND DESCRIPTION OF A NEW SPECIES OF *SPURILLA* WITH A PROPOSED MECHANISM OF SPECIATION**
Bonnie R. Lei, Walnut High School, 400 North Pierre Road, Walnut, CA 91789. Department of Biological Sciences, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, CA 91768-4032.
- 10:00–10:20 **BREAK**
- 118 10:20 **AUTONOMOUS ROBOT MODELING OF BACTERIAL MOTION AND CHEMOTAXIS**
Kenny Lei, Walnut High School, 400 N. Pierre Road, Walnut, CA 91789. Harvey Mudd College, 301 Platt Boulevard, Claremont, CA 91711
- 119 10:40 **DETECTING ANTIBIOTIC INSENSITIVITIES IN WETLAND BACTERIA**
Steven Hoffman, Research Training Program.
- 120 11:00 **THE EFFECT OF PHOTOSENSITIZATION OF FULLERNE-BASED NANOPARTICLES ON REACTIVE OXYGEN SPECIES GENERATION AND TOXICITY TO VIRUSES IN VARIOUS AQUEOUS ENVIRONMENTS**
Sumit Mitra, University High School, Irvine, CA 92612, Research with: Center for Environmental Implications of Nanotechnology, Duke University, Durham, NC
- 11:30–12:30 **Plenary Lecture: Theater**
12:30–1:20 **LUNCH BREAK**

SATURDAY, May 8, 2010

Location: Pasadena Room

Session: Research Training Program (cont.)

Chair: Dr. Martha Schwartz

- 121 1:20 **PROPARGYL METHYL ETHERS: NOVEL PRECURSORS TO COBALT-COMPLEXED PROPARGYL CATIONS**
Sarine Shahmirian and Gagik G. Melikyan. California State University Northridge, Department of Chemistry and Biochemistry, Northridge, CA, 91330
- 122 1:40 **ROLE OF SACCHARIDES IN THE IDENTIFICATION OF *SACCHAROMYCES CEREVISIAE* CLUMPING**
Laurine J. Shahmirian and Steven B. Oppenheimer. California State University Northridge, Department of Biology and Center for Cancer and Developmental Biology, Northridge, CA, 91330.
- 123 2:00 **THE EFFICIENCY OF DIET AND EXERCISE COMBINED TO CONTROL TYPE 2 DIABETES VERSUS METFORMIN ALONE, DIET ALONE, EXERCISE ALONE, OR A COMBINATION OF METFORMIN AND EXERCISE.**
Ariel J. Hawley, Palos Verdes High School, Palos Verdes Estates, CA, 90274.
- 124 2:20 **THE EFFECT OF LICORICE ON THE MOUSE HIPPOCAMPUS**
Alexa Aranjó, University of Southern California, Department of Biological Sciences, Neurology and Biomedical Engineering, Los Angeles, CA 90089.
- 125 2:40 **MITOCHONDRIAL ACTIVITY AND AUTOPHAGY RESPONSE IN MYOBLASTS**
Brian Diep¹ and Toshifumi Tomoda² ¹San Gabriel High School, ²Beckman Research Institute of City of Hope
- 3:00–3:20 **BREAK**

- 126 3:20 **AN ANALYSIS OF COLIFORM BACTERIA LEVELS IN THE BALLONA CREEK**
A. R. Kelleghan Notre Dame Academy, Los Angeles, CA and University of Southern California, Los Angeles, CA
- 127 3:40 **CARBON SEQUESTRATION WITHIN AN ACRE OF *RHUS INTEGRIFOLLA***
Kevin Wen, Palos Verdes Peninsula High School
- 128 4:00 **UNDERSTANDING THE CALIFORNIA WATER SHORTAGE AND LOCALIZING THE ISSUE FOR MARLBOROUGH SCHOOL**
J.J. Huh, Marlborough School, Department of Natural Sciences, Los Angeles, CA, 90004.

SATURDAY, May 8, 2010
Location: Alhambra Room

Session: Bridging Science and Education: COSEE West Partnerships

Chair: Gwen Noda, COSEE-West

- 8:30 Coffee, snacks and networking (sponsored by COSEE-West)
- 9:00 **WHAT ARE COSEE & COSEE-WEST? WHAT DO WE DO? HOW CAN YOU BE INVOLVED (scientists & educators)?**
G.K. Noda, COSEE-West, University of California Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095 and **L. Chilton**, COSEE-West and USC Sea Grant, University of Southern California, USC Sea Grant Program, Los Angeles, CA, 90089
- 9:20 **HOW ATTENDING SCIENTIFIC CONFERENCES CAN BENEFIT YOUR CLASSROOM**
G.K. Noda, COSEE-West, University of California Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095 and **L. Chilton**, COSEE-West and USC Sea Grant, University of Southern California, USC Sea Grant Program, Los Angeles, CA, 90089
- 9:40 **ABCS OF SCIENTIFIC CONFERENCES (FOR FIRST TIMERS!)**
G.K. Noda, COSEE-West, University of California Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095 and **L. Chilton**, COSEE-West and USC Sea Grant, University of Southern California, USC Sea Grant Program, Los Angeles, CA, 90089
- 10:00 **COFFEE BREAK**
- 10:20 **SCIENTISTS REACHING INTO CLASSROOMS: SCIENTIST PANEL SHARING HOW THEY ARE ABLE TO SUPPORT BY PRESENTING CURRENT RESEARCH TO THE CLASSROOM TEACHER FOR INCORPORATION IN THE CURRICULUM.**
J. KALMAN, Exhibits and Collections Curator, Cabrillo Marine Aquarium S. BAY, Principal Scientist, Southern California Coastal Water Research Project (SCCWRP)
- 10:40 **TEACHERS CONNECTING THEIR STUDENTS TO SCIENCE: TEACHER PANEL SHARING HOW THEY UTILIZE CW RESOURCES AND INCORPORATE CURRENT MARINE SCIENCES INTO THEIR CLASSROOMS**
D. DECK, Stephen Foster Elementary School, Lakewood, CA **L. ESCAJEDA**, Marina del Rey Middle School Marine Science Academy, Los Angeles, CA **M. FRIEDMAN**, Animo Leadership Charter High School, Inglewood, CA
- 11:00 **NETWORKING: TALK WITH COSEE WEST PRESENTERS AND STAFF TO PLAN COLLABORATIONS, FIND SOLUTIONS AND EXPLORE OPPORTUNITIES**
 COSEE-West Staff
- 11:30–12:30 Plenary Lecture: Theater
- 12:30–1:20 LUNCH BREAK

SATURDAY, May 8, 2010
Location: Alhambra Room

Session: Revisiting long-term studies of Coastal Sage Scrub/grassland boundaries in Southern California

Chair: Paul Laris, CSU Long Beach

- 132E 1:20 **MAPPING FIFTY YEARS OF VEGETATION CHANGE AT PORTUGUESE BEND**
M.H. Ferris, California State University, Long Beach, Department of Geography, Long Beach, California 90840
- 133E 1:40 **LOOKING BACK AT CHANGES IN COASTAL SAGE SCRUB BOUNDARIES IN THE SANTA MONICA MOUNTAINS, AGAIN**
Scott Eckardt, Samantha Roth & Paul Laris, California State University, Long Beach, Department of Geography, Long Beach, California 90840
- 134E 2:00 **AN 80 YEAR RECORD OF THE DISTURBANCE REGIME OF CALIFORNIA COASTAL SAGE SCRUB ON THE PALOS VERDES PENINSULA**
Jade Dean*, Paul Laris, Chrys Rodrigue and Michael Ferris California State University, Long Beach, Department of Geography, Long Beach, California 90840
- 135E 2:20 **REVISITING THE LONG TERM IMPACTS OF MECHANICAL DISTURBANCES, GRAZING AND FIRE ON CSS/GRASSLAND BOUNDARIES IN MUGU STATE PARK, CALIFORNIA**
Kyra Engelberg*¹, Paul Laris¹, and Samantha Roth¹ 1: University of California, Long Beach
- 136 2:40 **REVISITING LONG-TERM STUDIES OF GRASSLAND/WOODLAND BOUNDARIES: WHAT WE CAN LEARN?**
Paul Laris (CSU Long Beach)